

A B S T R A C T

A METHOD OF RESTORING PARTIALS OF A SOUND SIGNAL

5 The present invention relates to a method for restoring a partial between a peak P_i and a peak P_{i+N} whose frequency and phase are known. The method (1) comprises the steps of:

- 10 · estimating (2) the frequency $\hat{\omega}$ of each of the missing peaks P_{i+1} to P_{i+N-1} of this partial;
- calculating (3) the phase $\hat{\phi}$ from peak to peak, from the phase of the peak P_i to that of the peak P_{i+N} , for all the frequencies $\hat{\omega}$ previously estimated;
- 15 · calculating (4) the phase error $err\varphi$ between the calculated phase $\hat{\phi}$ and the known phase at the same peak P_{i+N} ;
- correcting (5) each calculated phase $\hat{\phi}$ by a value that is a function of the phase error $err\varphi$.

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35 Translation of the title and the abstract as published by the PCT Authorities, possibly after making changes, ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.